Please replace the third full paragraph beginning at page 51, line 25, with the following rewritten paragraph:

-- The full-length 76kDa protein gene (SEQ ID NO:1) was amplified from *Chlamydia pneumoniae* genomic DNA by polymerase chain reaction (PCR) using a 5' primer (5' ATAAGAATGCGGCCGCCACC**ATGGTTAATCCTATTGGTCCAGG** 3') (SEQ ID No:9) and a 3' primer (5' GCGCCGGATCCC**TTGGAGATAACCAGAATATAGAG** 3') (SEQ ID No:10). The 5' primer contains a Not I restriction site, a ribosome binding site, an initiation codon and a sequence close to the 5' end of the full-length 76kDa protein coding sequence. The 3' primer includes the sequence encoding the C-terminal sequence of the 76kDa protein and a Bam HI restriction site. The stop codon was excluded and an additional nucleotide was inserted to obtain an in-frame fusion with the Histidine tag. --

Please replace the third full paragraph beginning at page 52, line 14, with the following rewritten paragraph:

--Plasmid pcDNA3.1(-)Myc-His C (Invitrogen) was restricted with Spe I and Bam HI to remove the CMV promoter and the remaining vector fragment was isolated. The CMV promoter and intron A from plasmid VR-1012 (Vical) was isolated on a Spe I / Bam HI fragment. The fragments were ligated together to produce plasmid pCA/Myc-His. The Not I/Bam HI restricted PCR fragment containing the full-length 76kDa protein gene (SEQ ID NO:1) was ligated into the Not I and Bam HI restricted plasmid pCA/Myc-His to produce plasmid pCACPNM555a (Fig 4). --

Please replace the second full paragraph beginning at page 56, line 5, with the following rewritten paragraph:

-- The 5' truncated 76kDa protein gene (SEQ ID NO:3) was amplified from *Chlamydia pneumoniae* genomic DNA by polymerase chain reaction (PCR) using a 5' primer (5' ATAAGAATGCGGCCGCCACC**ATGAGTCTGGCAGATAAGCTGGG** 3') (SEQ ID No:11) and a 3' primer (5' GCGCCGGATCCC**TTGGAGATAACCAGAATATA** 3') (SEQ ID No:12). The 5' primer contains a Not I restriction site, a ribosome binding site, an initiation codon and a sequence at the second Met codon of the 76kDa protein coding sequence. The 3' primer includes the sequence encoding the C-terminal sequence of the 3' 76kDa protein and a Bam HI restriction site. The stop codon was excluded and an additional nucleotide was inserted to obtain an in-frame fusion with the Histidine tag. --

Please replace the fifth full paragraph beginning at page 56, line 27, with the following rewritten paragraph:

-- Plasmid pcDNA3.1(-)Myc-His C (Invitrogen) was restricted with Spe I and Bam HI to remove the CMV promoter and the remaining vector fragment was isolated. The CMV promoter and intron A from plasmid VR-1012 (Vical) was isolated on a Spe I / Bam HI fragment. The fragments were ligated together to produce plasmid pCA/Myc-His. The Not I/Bam HI restricted

PCR fragment containing the 5' truncated 76kDa protein gene (SEQ ID NO:3) was ligated into the Not I and Bam HI restricted plasmid pCA/Myc-His to produce plasmid pCAI555 (Fig 5). --

Please replace the second full paragraph beginning at page 60, line 5, with the following rewritten paragraph:

-- The 3'-truncated 76kDa protein gene (SEQ ID NO:7 which contains SEQ ID NO:5) was amplified from *Chlamydia pneumoniae* genomic DNA by polymerase chain reaction (PCR) using a 5' primer (5' GCTCTAGA*CCGCC***ATGACAAAAAAACATTATGCTTGGG** 3') (SEQ ID No:13) and a 3' primer (5' CGGGATCC**ATAGAACTTGCTGCAGCGGG** 3') (SEQ ID No:14). The 5' primer contains a Xba I restriction site, a ribosome binding site, an initiation codon and a sequence 765bp upstream of the 5' end of the 76kDa protein coding sequence. The 3' primer includes a 21bp the sequence downstream of codon 452 of the 76kDa protein and a Bam HI restriction site. An additional nucleotide was inserted to obtain an in-frame fusion with the Histidine tag. Note that inclusion of the 765bp 5' region and the 21bp 3' regions in SEQ ID NO:7 were inadvertent. These sequences are not part of the 76kDa protein gene. Nevertheless, immunoprotection was achieved using this sequence (Example 6). --

Please replace the fifth full paragraph beginning at page 60, line 30, with the following rewritten paragraph:

-- Plasmid pcDNA3.1(-)Myc-His C (Invitrogen) was restricted with Spe I and Bam HI to remove the CMV promoter and the remaining vector fragment was isolated. The CMV promoter and intron A from plasmid VR-1012 (Vical) was isolated on a Spe I / Bam HI fragment. The fragments were ligated together to produce plasmid pCA/Myc-His. The Xba I/Bam HI restricted PCR fragment containing a 3'-truncated 76kDa protein gene (SEQ ID NO:7) was ligated into the Xba I and Bam HI restricted plasmid pCA/Myc-His to produce plasmid pCAD76kDa (Fig. 6). --

In the Claims:

Please cancel non-elected claims 1-7, 12-25, 29-34 and 36-38 without prejudice or disclaimer. Applicant reserves the right to file divisional application(s) to the subject matter of the cancelled claims.

Please amend claims 8-11, 26-28 and 35 without prejudice or disclaimer, as follows:

8. (Amended) A vaccine comprising a vaccine vector wherein the vaccine vector comprises a nucleic acid molecule which encodes a polypeptide selected from any one of:
(a) SEQ ID No: 2;
(b) SEQ ID No. 4;
(c) SEQ ID No. 6;
(d) an immunogenic fragment comprising at least 12 consecutive amino acids from the polypeptide of (a); and